

10/633,565

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=> file chemistry patent

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=> s (fluoro (2a) halo (2a) ether#) or (per (2a) fluorohalogenether#) or
(fluorohalogenated (2a)ether#) or (fluorohalogenether#)

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34 FILES SEARCHED...

54 FILES SEARCHED...

72 FILES SEARCHED...

L1 60 (FLUORO (2A) HALO (2A) ETHER#) OR (PER (2A) FLUOROHALOGENETHER#)
OR (FLUOROHALOGENATED (2A) ETHER#) OR (FLUOROHALOGENETHER#)

=> s liquid phase

25 FILES SEARCHED...

51 FILES SEARCHED...

65 FILES SEARCHED...

L2 385766 LIQUID PHASE

=> s l1 and l2

46 FILES SEARCHED...

L3 13 L1 AND L2

=> d 1-13 bib ab

L3 ANSWER 1 OF 13 EUROPATFULL COPYRIGHT 2004 WILA on STN

PATENT APPLICATION - PATENTANMELDUNG - DEMANDE DE BREVET

AN 1388531 EUROPATFULL ED 20040211 EW 200407 FS OS
TIEN Process for preparing **fluorohalogenethers**.
TIDE Verfahren zur Herstellung von Fluorhalogenethern.
TIFR Procédé pour la préparation d'ethers fluorohalogenés.
IN Tortelli, Vito, Viale Corsica 46, 20100 Milano, IT;
Calini, Pierangelo, Via Capuana 3, 20017 Rho, Milano, IT
PA Solvay Solexis S.p.A., Via Turati, 12, 20121 Milano, IT
PAN 4314910
AG Sama, Daniele, Dr. et al., Sama Patents Via Morgagni, 2, 20129 Milano,
IT
AGN 76061
OS MEPA2004015 EP 1388531 A1 0009
SO Wila-EPZ-2004-H07-T1a
DT Patent
LA Anmeldung in Englisch; Veröffentlichung in Englisch
DS R AT; R BE; R BG; R CH; R CY; R CZ; R DE; R DK; R EE; R ES; R FI; R FR;
R GB; R GR; R HU; R IE; R IT; R LI; R LU; R MC; R NL; R PT; R RO; R SE;
R SI; R SK; R TR; R AL; R LT; R LV; R MK
PIT EPA1 EUROPÄISCHE PATENTANMELDUNG
PI EP 1388531 A1 20040211
OD 20040211
AI EP 2003-17180 20030729
PRAI IT 2002-MI20021782 20020806
ABEN A process for preparing (**per**) **fluorohalogenethers**
having general formula (I): <chemical formula> wherein:
A and A', equal to or different the one from the other, are Cl or Br
or one is selected from A and A' and hydrogen and the other is halogen
selected from Cl, Br; R = F, or a fluorinated, preferably
perfluorinated, substituent, selected from the following groups: linear
or branched C.sub1.-C.sub20. alkyl more preferably C.sub1.-C.sub10.;
C.sub3.-C.sub7. cycloalkyl; aromatic, C.sub6.-C.sub10. arylalkyl,
alkylaryl; C.sub5.-C.sub10. heterocyclic or alkylheterocyclic; when R is
fluorinated or perfluorinated alkyl, cycloalkyl, arylalkyl, alkylaryl,
it can optionally contain in the chain one or more oxygen atoms;
when R is fluorinated it can optionally contain one or more H atoms
and/or one or more halogen atoms different from F:
n is an integer and is 1 or 2; m = 3-n;
by reaction of carbonyl compounds having formula (II): <chemical
formula> wherein:
p is an integer and is 1 or 2; q is an integer and is zero or 1, R

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is as above;
in **liquid phase** with elemental fluorine and with
olefinic compounds having formula (III): <chemical formula> wherein A
and A' are as above,
at temperatures in the range from -120°C to -20°C.

L3 ANSWER 2 OF 13 EUROPATFULL COPYRIGHT 2004 WILA on STN

PATENT APPLICATION - PATENTANMELDUNG - DEMANDE DE BREVET

AN 267626 EUROPATFULL ED 20001008 EW 198820 FS OS STA B
TIEN Process for the preparation of **fluorohalogenated**
ethers starting from fluorooxy compounds and halogenated
olefins.
TIDE Verfahren zur Herstellung von Fluor-Halogen-Aethern, ausgehend von
Fluorooxyverbindungen und halogenierten Olefinen.
TIFR Procédé de préparation d'ethers fluorohalogénés à partir de composés
fluoro-oxygènes et d'oléfinés halogénés.
IN Guglielmo, Giorgio, Dr., 89, via A. Gramsci, I-30035 Mirano Venezia, IT;
Gambaretto, Gian Paolo, Dr., 32/22, via Turazza, I-35100 Padova, IT
PA AUSIMONT S.p.A., 31, Foro Buonaparte, I-20121 Milano, IT
PAN 464620
AG Barz, Peter, Dr., et al, Patentanwalt Dr. V. Schmied-Kowarzik
Dipl.-Ing. G. Dannenberg Dr. P. Weinhold Dr. D. Gudel Dipl.-Ing. S.
Schubert Dr. P. Barz Siegfriedstrasse 8, D-8000 Muenchen 40, DE
OS ESP1988018 EP 0267626 A1 880518
SO Wila-EPZ-1988-H20-T1
DT Patent
LA Anmeldung in Englisch; Veröffentlichung in Englisch
DS R DE; R FR; R GB; R NL
PIT EPA1 EUROPÄISCHE PATENTANMELDUNG
PI EP 267626 A1 19880518
OD 19880518
AI EP 1987-116811 19871113
PRAI IT 1986-22349 19861114
ABEN Improved process for the preparation of **fluorohalogenated**
ethers by reaction of a fluorinated fluorooxy compound with a
halogenated olefin, performed in **liquid phase**, in
the presence of an inert solvent, at low temperature, the fluorooxy
compound being continuously fed in form of solution in an inert
solvent.

L3 ANSWER 3 OF 13 IFIPAT COPYRIGHT 2004 IFI on STN

AN 10522932 IFIPAT;IFIUDB;IFICDB
TI PROCESS FOR PREPARING **FLUOROHALOGENETHERS**
INF Calini; Pierangelo, Rho, IT
Tortelli; Vito, Milano, IT
IN Calini Pierangelo (IT); Tortelli Vito (IT)
PAF Solvay Solexis S.p.A.
PA Solvay Solexis SpA IT
AG ARENT FOX KINTNER PLOTKIN & KAHN, 1050 CONNECTICUT AVENUE, N.W., SUITE
400, WASHINGTON, DC, 20036, US
PI US 2004030146 A1 20040212
AI US 2003-633565 20030805
PRAI IT 2002-MI1782 20020806
FI US 2004030146 20040212
DT Utility; Patent Application - First Publication
FS CHEMICAL
APPLICATION
CLMN 8

AB A process for preparing (**per**)**fluorohalogenethers** having general formula (I): $(R)_nC(F)_mOCAF-CA'F_2$ (I) wherein: A and A', equal to or different the one from the other, are Cl or Br or one is selected from A and A' and hydrogen and the other is halogen selected from Cl, Br; R horizontal-line F, or a fluorinated, preferably perfluorinated, substituent, selected from the following groups: linear or branched C1-C20 alkyl more preferably C1-C10; C3-C7 cycloalkyl; aromatic, C6-C10 arylalkyl, alkylaryl; C5-C10 heterocyclic or alkylheterocyclic; when R is fluorinated or perfluorinated alkyl, cycloalkyl, arylalkyl, alkylaryl, it can optionally contain in the chain one or more oxygen atoms; when R is fluorinated it can optionally contain one or more H atoms and/or one or more halogen atoms different from F: n is an integer and is 1 or 2; m=3-n; by reaction of carbonyl compounds having formula (II): $(R)pC(F)_q(O)$ (II) wherein: p is an integer and is 1 or 2; q is an integer and is zero or 1, R is as above; in **liquid phase** with elemental fluorine and with olefinic compounds having formula (III): CAF horizontal-line CA'F (III) wherein A and A' are as above, at temperatures in the range from -120 degrees C. to -20 degrees C.

L3 ANSWER 4 OF 13 IFIPAT COPYRIGHT 2004 IFI on STN
 AN 02018930 IFIPAT;IFIUDB;IFICDB
 TI PROCESS FOR THE PREPARATION OF **FLUOROHALOGENATED ETHERS**
 STARTING FROM FLUOROOXY-COMPOUNDS AND HALOGENATED OLEFINS
 INF Gamberetto, Gian P, Padua, IT
 Guglielmo, Giorgio, Venice, IT
 IN Gamberetto Gian P (IT); Guglielmo Giorgio (IT)
 PAF Ausimont SpA, Milan, IT
 PA Ausimont SpA IT (15271)
 EXNAM Mars, Howard T
 AG Stevens, Davis, Miller & Mosher
 PI US 4900872 A 19900213 (CITED IN 007 LATER PATENTS)
 AI US 1989-361775 19890526
 XPD 10 Nov 2007
 RLI US 1987-119170 19871110 CONTINUATION ABANDONED
 PRAI IT 1986-A22349 19861114
 FI US 4900872 19900213
 DT Utility
 FS CHEMICAL
 GRANTED
 CLMN 3

AB Improved process for the preparation of **fluorohalogenated ethers** by reaction of a fluorinated fluorooxycompound with a halogenated olefin, performed in **liquid phase**, in the presence of an inert solvent, at low temperature, the fluorooxycompound being continuously fed in form of solution in an inert solvent.

L3 ANSWER 5 OF 13 INPADOC COPYRIGHT 2004 EPO on STN

LEVEL 1
 AN 228506727 INPADOC ED 20040308 EW 200410 UP 20040408 UW 200415
 TI Process for preparing **fluorohalogenethers**.
 IN TORTELLI VITO; CALINI PIERANGELO
 INS TORTELLI VITO; CALINI PIERANGELO
 INA IT; IT
 PA SOLVAY SOLEXIS S.P.A.
 PAS SOLVAY SOLEXIS S P A
 PAA US
 DT Patent
 PIT USAA PATENT APPLICATION PUBLICATION (PRE-GRANT)
 PI US 2004030146 AA 20040212
 AI US 2003-633565 A 20030805

10/633,565

PRAI IT 2002-MI1782 A 20020806

OSDW 2004-204598

AB A process for preparing (**per**)**fluorohalogenethers** having general formula (I): $(R)nC(F)mOCAF-CA'F_2$ (I) wherein: A and A', equal to or different the one from the other, are Cl or Br or one is selected from A and A' and hydrogen and the other is halogen selected from Cl, Br; R=F, or a fluorinated, preferably perfluorinated, substituent, selected from the following groups: linear or branched C1-C20 alkyl more preferably C1-C10; C3-C7 cycloalkyl; aromatic, C6-C10 arylalkyl, alkylaryl; C5-C10 heterocyclic or alkylheterocyclic; when R is fluorinated or perfluorinated alkyl, cycloalkyl, arylalkyl, alkylaryl, it can optionally contain in the chain one or more oxygen atoms; when R is fluorinated it can optionally contain one or more H atoms and/or one or more halogen atoms different from F: n is an integer and is 1 or 2; m=3-n; by reaction of carbonyl compounds having formula (II): $(R)pC(F)q(O)$ (II) wherein: p is an integer and is 1 or 2; q is an integer and is zero or 1, R is as above; in **liquid phase** with elemental fluorine and with olefinic compounds having formula (III): $CAF=CA'F$ (III) wherein A and A' are as above, at temperatures in the range from -120 C. to -20 C.

L3 ANSWER 6 OF 13 INPADOC COPYRIGHT 2004 EPO on STN

LEVEL 1

AN 28244913 INPADOC UP 20030929 UW 200339

TI PROCESS FOR THE PREPARATION OF **FLUOROHALOGENATED ETHERS**
STARTING FROM FLUOROOXY-COMPOUNDS AND HALOGENATED OLEFINS.
PROCEDE POUR LA PREPARATION DE POLYETHERS HALOGENES.

IN GUGLIELMO, GIORGIO; GAMBARETTO, GIAN PAOLO

INS GUGLIELMO GIORGIO; GAMBARETTO GIAN PAOLO

INA IT; IT

PA AUSIMONT S.P.A.

PAS AUSIMONT SPA

PAA IT

TL English; French

LA English

DT Patent

PIT CAA1 PATENT

PI CA 1339538 A1 19971111

AI CA 1987-551814 A 19871113

PRAI IT 1986-22349 A 19861114

AB Disclosed is a process for the preparation of **fluorohalogenated ethers** by reaction of a fluorinated fluorooxycompound with a halogenated olefin. During the reaction which is carried out at low temperature in **liquid phase** in the presence of an inert solvent, the fluoro-oxycompound is continuously fed in the form of a solution in an inert solvent. The **fluorohalogenated ethers** that are so obtained in a continuous manner form fluorooxy-compounds having more than two carbon atoms, can be halogenated to produce the corresponding perfluorovinyl-ethers.

L3 ANSWER 7 OF 13 PATOSEP COPYRIGHT 2004 WILA on STN

PATENT APPLICATION - PATENTANMELDUNG - DEMANDE DE BREVET

AN 2003:1582808 PATOSEP ED 20040213 EW 200407 FS OS

TIEN Process for preparing **fluorohalogenethers**.

TIDE Verfahren zur Herstellung von Fluorhalogenethern.

TIFR Procède pour la préparation d'ethers fluorohalogenes.

IN Tortelli, Vito, Viale Corsica 46, 20100 Milano, IT;

Calini, Pierangelo, Via Capuana 3, 20017 Rho, Milano, IT

A Solvay Solexis S.p.A., Via Turati, 12, 20121 Milano, IT

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PAN 4314910
AG Sama, Daniele, Dr. et al., Sama Patents Via Morgagni, 2, 20129 Milano, IT
AGN 76061
OS MEPA2004015 EP 1388531 A1 0009
SO Wila-EPZ-2004-H07-T1a
DT Patent
LA Anmeldung in Englisch; Veroeffentlichung in Englisch
DS R AT; R BE; R BG; R CH; R CY; R CZ; R DE; R DK; R EE; R ES; R FI; R FR; R GB; R GR; R HU; R IE; R IT; R LI; R LU; R MC; R NL; R PT; R RO; R SE; R SI; R SK; R TR; R AL; R LT; R LV; R MK
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PRAI IT 2002-MI20021782 20020806
EPA1 EUROPÄISCHE PATENTANMELDUNG
ABEN A process for preparing (per) **fluorohalogenethers** having general formula (I): (R) (IND=n)C(F) (IND=m)OCAF-CA'F (IND=2) wherein: A and A', equal to or different the one from the other, are Cl or Br or one is selected from A and A' and hydrogen and the other is halogen selected from Cl, Br; R = F, or a fluorinated, preferably perfluorinated, substituent, selected from the following groups: linear or branched C(IND=1)-C(IND=20) alkyl more preferably C(IND=1)-C(IND=10); C(IND=3)-C(IND=7) cycloalkyl; aromatic, C(IND=6)-C(IND=10) arylalkyl, alkylaryl; C(IND=5)-C(IND=10) heterocyclic or alkylheterocyclic; when R is fluorinated or perfluorinated alkyl, cycloalkyl, arylalkyl, alkylaryl, it can optionally contain in the chain one or more oxygen atoms; when R is fluorinated it can optionally contain one or more H atoms and/or one or more halogen atoms different from F: n is an integer and is 1 or 2; m = 3-n; by reaction of carbonyl compounds having formula (II): (R) (IND=p)C(F) (IND=q) (O) wherein: p is an integer and is 1 or 2; q is an integer and is zero or 1, R is as above; in **liquid phase** with elemental fluorine and with olefinic compounds having formula (III): CAF=CA'F wherein A and A' are as above, at temperatures in the range from -120*Grad*C to -20*Grad*C.

L3 ANSWER 8 OF 13 PATOSEP COPYRIGHT 2004 WILA on STN

PATENT APPLICATION - PATENTANMELDUNG - DEMANDE DE BREVET

AN 1987:1159849 PATOSEP ED 19920127 EW 198820 FS OS
TIEN Process for the preparation of **fluorohalogenated ethers** starting from fluoroxy compounds and halogenated olefins.
TIDE Verfahren zur Herstellung von Fluor-Halogen-Aethern, ausgehend von Fluoroxyverbindungen und halogenierten Olefinen.
TIFR Procède de preparation d'ethers fluorohalogenes a partir de composés fluoro-oxygènes et d'oléfines halogénées.
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OS ESP1988018 EP 0267626 A1 0004
SO Wila-EPZ-1988-H20-T1
DT Patent
LA Anmeldung in Englisch; Veroeffentlichung in Englisch
DS R DE; R FR; R GB; R NL
PIT EPA1 EUROPÄISCHE PATENTANMELDUNG